

$$13. f(-2) = 4$$

$$f(-1) = 1$$

$$f(0) = 1$$

$$f(1) = 2$$

$$f(2) = 3$$

$$14. f(-5) = -15$$

$$f(0) = 1$$

$$f(1) = 2$$

$$f(2) = 3$$

$$f(5) = 9$$

$$15. f(0) = -4$$

$$f(2) = 10$$

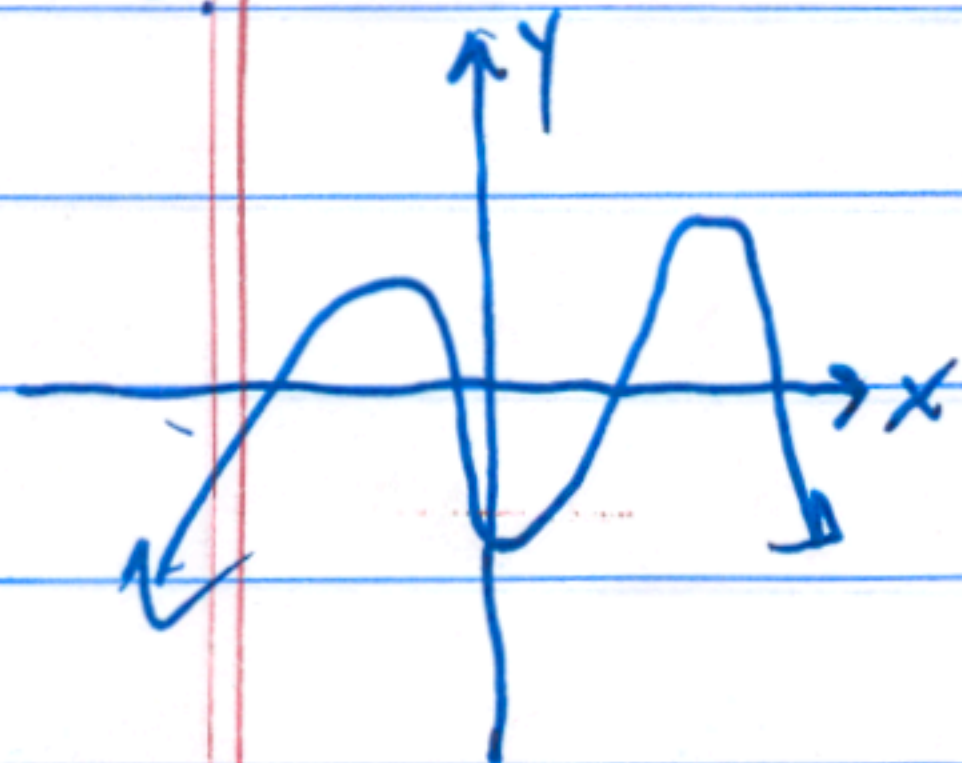
$$f(-2) = -2$$

$$f(\sqrt{2}) = 3\sqrt{2}$$

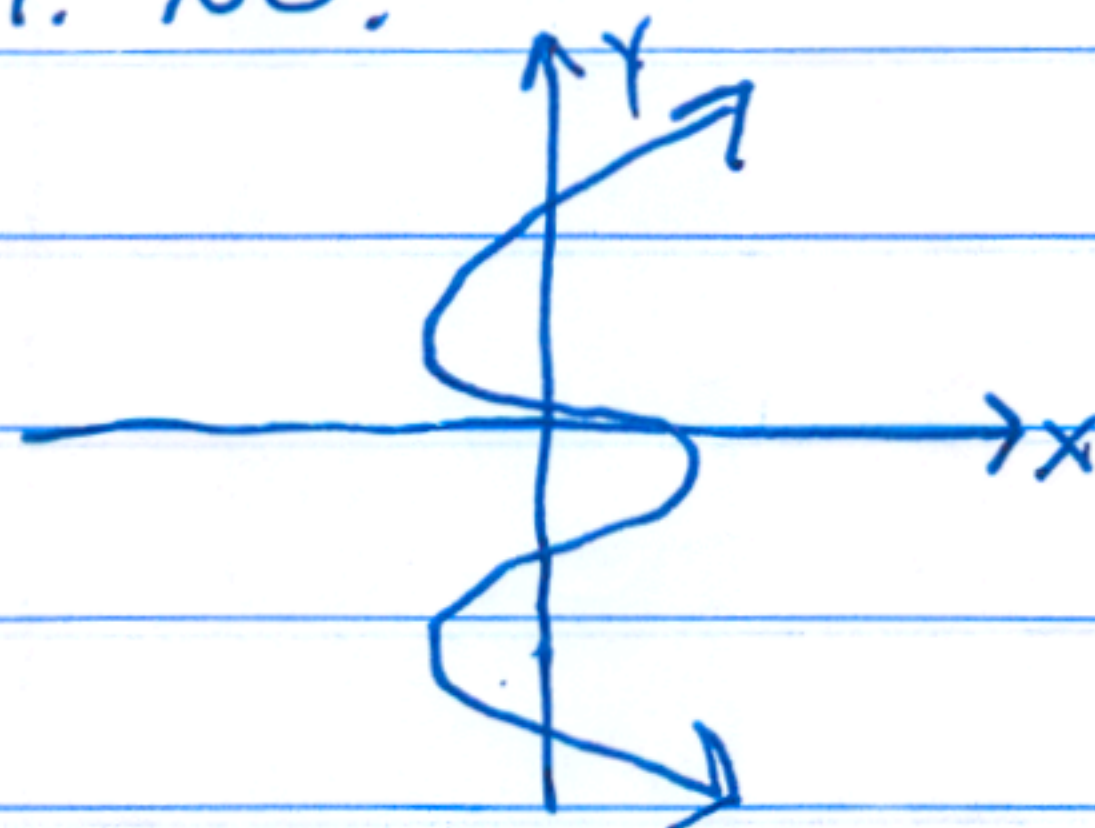
$$f(x+1) = 2x^2 + 7x + 1$$

$$f(-x) = 2x^2 - 3x - 4$$

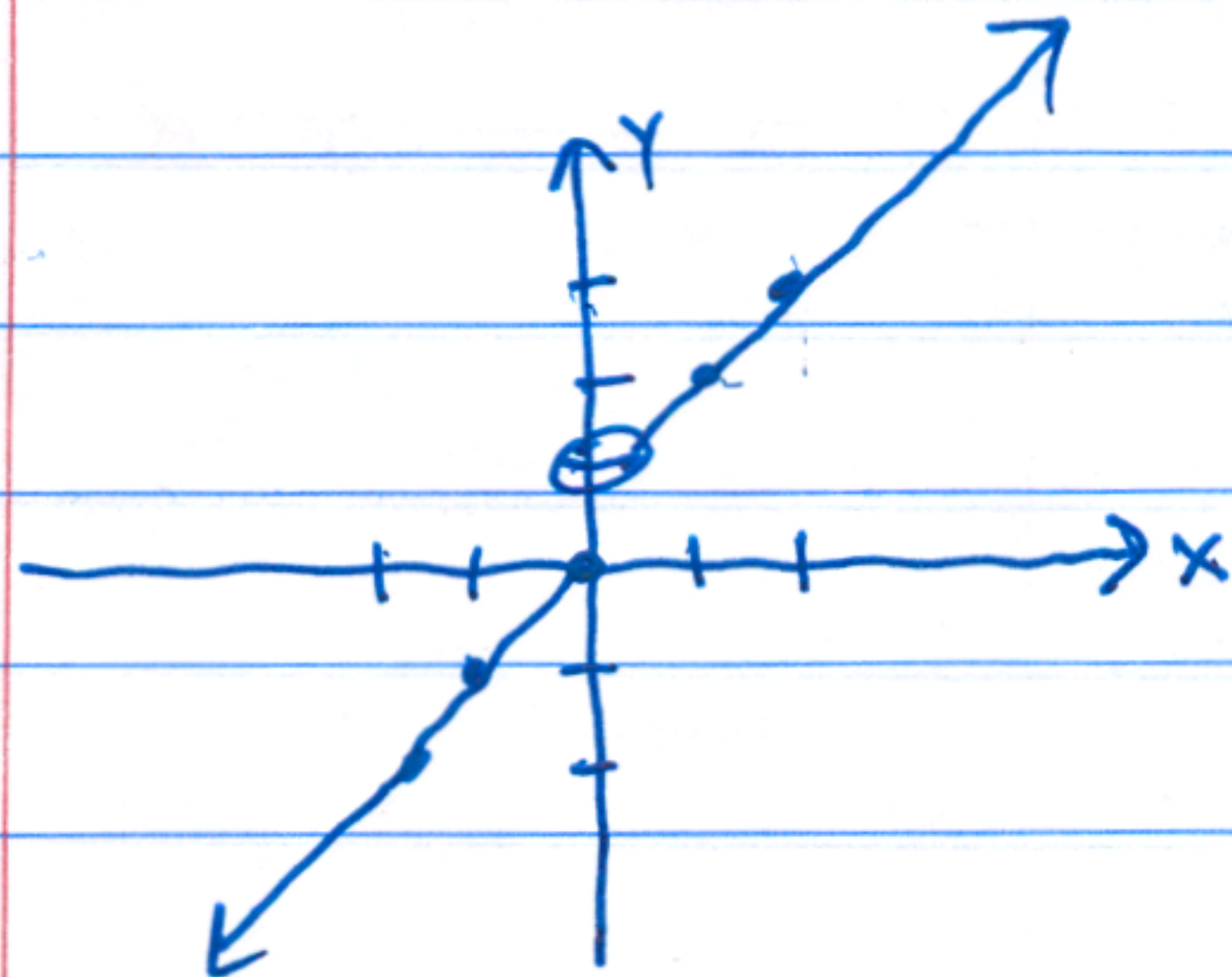
16. YES



17. NO.



19.



$$20. \frac{f(3)-f(2)}{3-2} = \frac{3(3)-2-[3(2)-2]}{1}$$

$$= \frac{9-2-[6-2]}{1} = \frac{7-4}{1} = \boxed{3}$$

21.

$$\frac{f(2+h)-f(2)}{2+h-2} = \frac{3(2+h)^2-[3(2)^2]}{h} = \frac{3(4+4h+h^2)-12}{h}$$

$$= \frac{12+12h+3h^2-12}{h} = \frac{12h+3h^2}{h} = \boxed{12+3h}$$